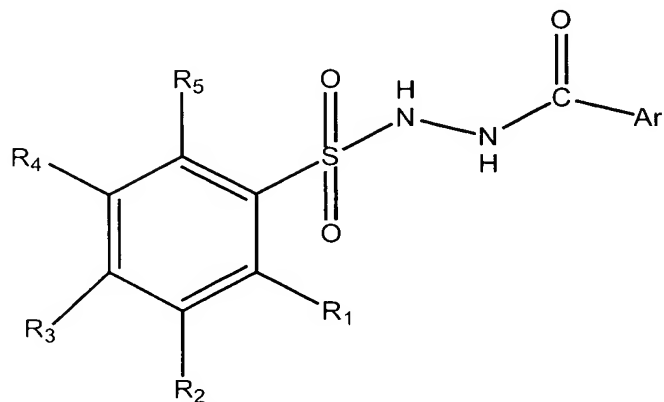


## Claims Listng

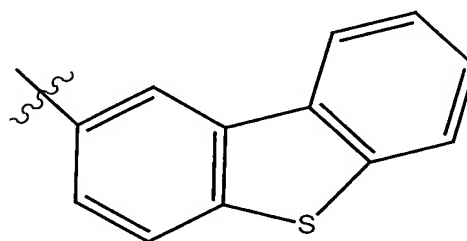
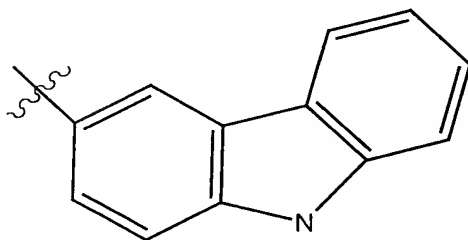
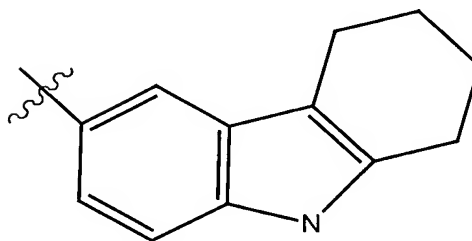
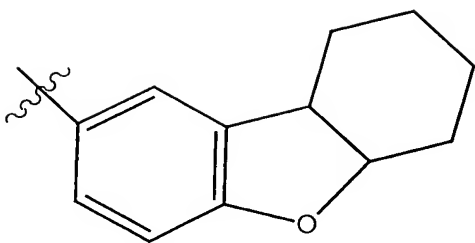
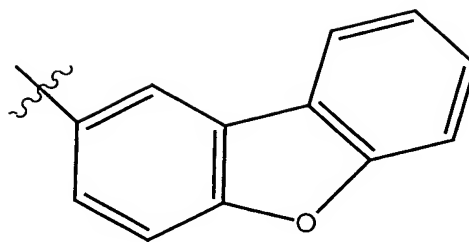
This listing of claims will replace all prior versions and listings of claims in the application:

1.(currently amended)

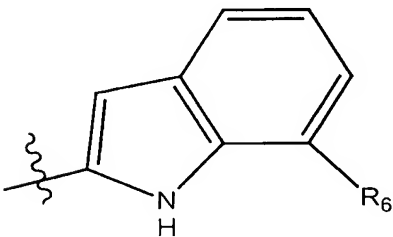
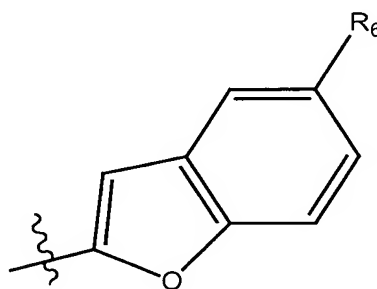
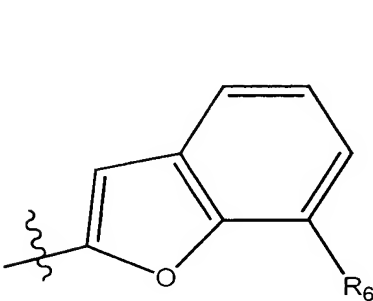
A compound of Formula I



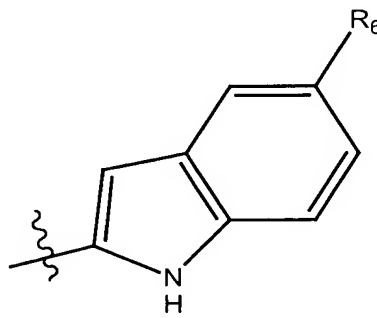
wherein: R<sub>3</sub> is H, or F, Br, alkyl, carboxy, alkoxy, substituted alkoxy, R<sub>1</sub>, R<sub>2</sub> R<sub>4</sub>, and R<sub>5</sub> are independently, H, halogen, alkyl, substituted alkyl, alkoxy, substituted alkoxy, cyano, nitro, amino, alkylamine, and thioalkyl, Ar is naphthalenyl or bicyclic heteroaryl, tricyclic heteroaryl selected from the group consisting of



, substituted bicyclic heteroaryl selected from the group consisting of

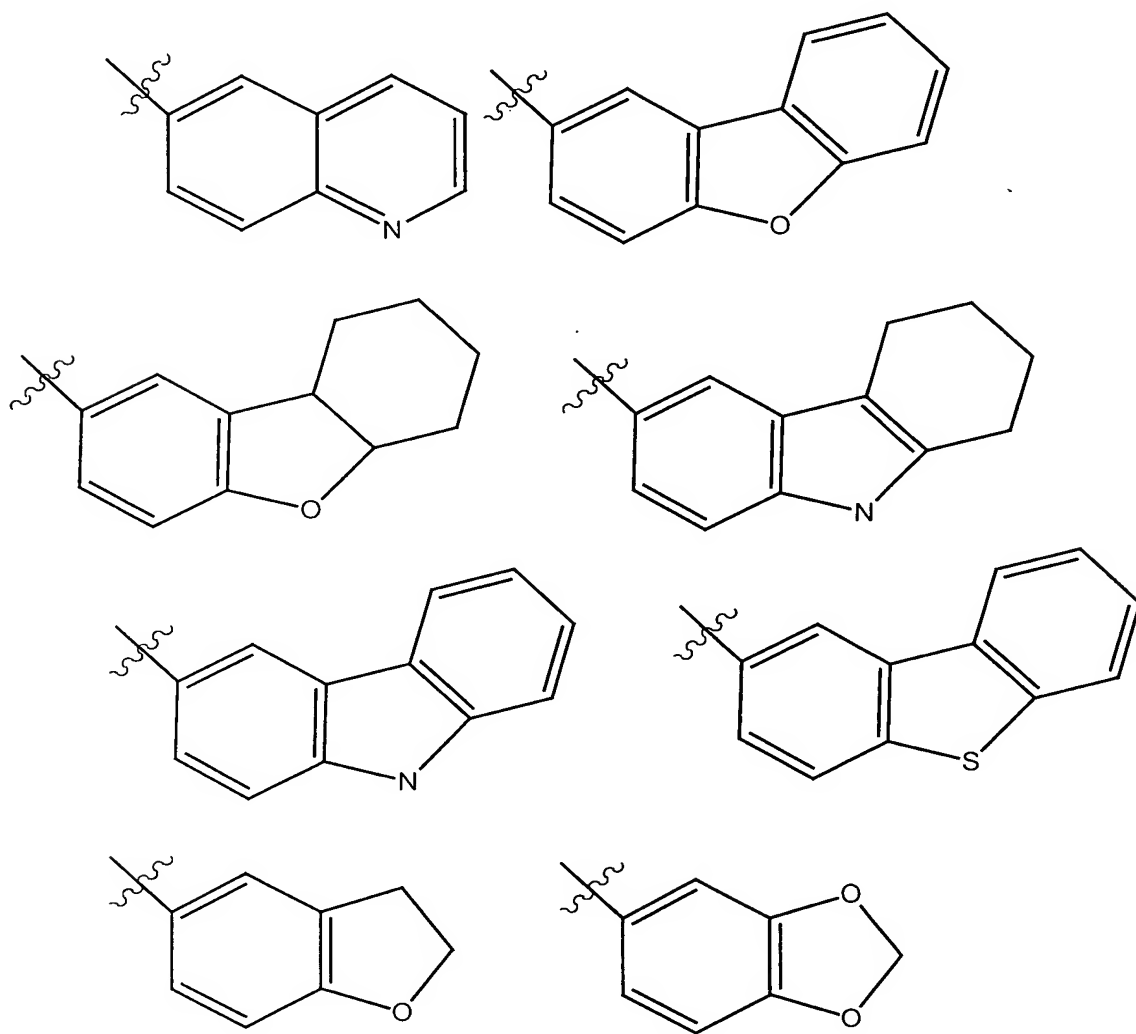


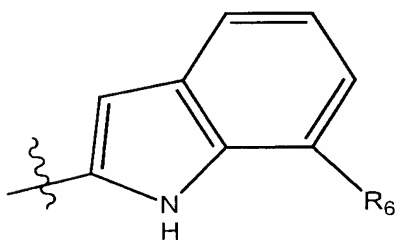
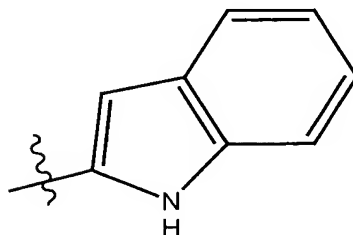
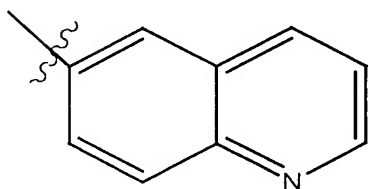
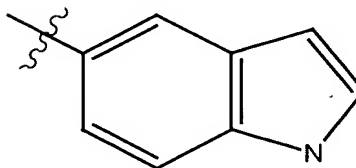
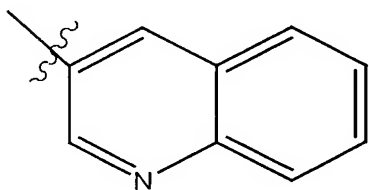
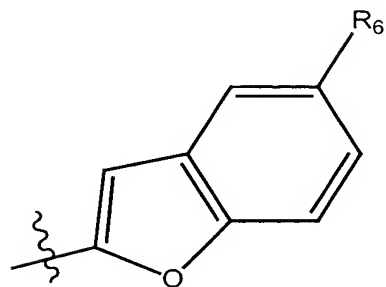
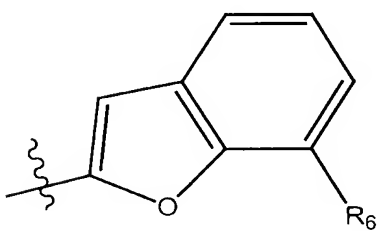
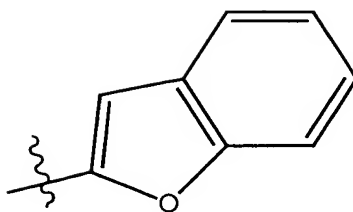
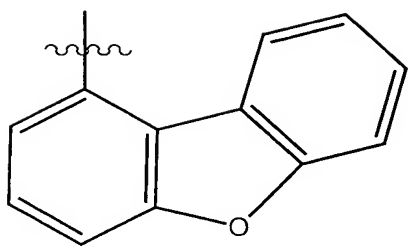
and



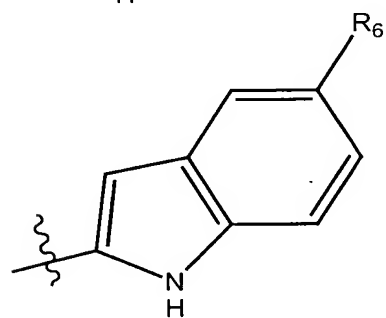
wherein R<sub>6</sub> is alkoxy, substituted alkoxy, halogen, aryloxy, substituted aryloxy, alkylamino, substituted alkylamino, aryl alkylamino, substituted aryl alkylamino, amide or substituted amide; except (6-methoxybenzofuran)-2-yl, 3-quinolinyl; or a pharmaceutically acceptable salt, ester, prodrug, or amide thereof.

2.(original) A compound according to claim 1 wherein Ar is selected from the group consisting of:





and



wherein  $R_6$  is alkoxy, substituted alkoxy, halogen, aryloxy, substituted aryloxy, alkylamino, substituted alkylamino, aryl alkylamino, substituted aryl alkylamino, amide or substituted amide.

3. (original) A compound according to claim 1 wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, and R<sub>5</sub> are hydrogen.
4. (original) A compound according to claim 1 wherein Ar is a tricyclic heteroaryl.
5. (original) A compound according to claim 1 wherein Ar is a bicyclic heteroaryl.
6. (original) A compound according claim 1 wherein the compound is:
  - Dibenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 2,3,4,9-Tetrahydro-1H-carbazole-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - Benzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 5-Methoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 7-Methoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 7-Ethoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 7-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 5-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 2,3-Dihydro-benzofuran-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - Benzo[1,3]dioxole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 1H-Indole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 1-Dibenzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - Quinoline-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;
  - 2-Dibenzofurancarboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide;
  - 2-Dibenzofurancarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;
  - 2-Dibenofurancarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;
  - 2-Dibenzofurancarboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;
  - Dibenzofuran-2-carboxylic acid, 2-(3,5-dichlorophenylsulfonyl)-hydrazide;
  - Quinoline-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide; Quinoline-8-carboxylic acid, 2-(phenylsulfonyl)-hydrazide
  - 2-Benzofurancarboxylic acid, 5-chloro-2-[(4-fluorophenyl)]-sulfonyl -hydrazide
  - 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(4-fluoro-phenyl)sulfonyl]-hydrazide
  - 2-Dibenzofurancarboxylic acid, 2-[(4-fluorophenyl)sulfonyl]-hydrazide
  - 2-Dibenzofurancarboxylic acid, 2-[(2-chloro-4-fluorophenyl)-sulfonyl]-hydrazide
  - 2-Dibenzofurancarboxylic acid, 2-[(3-cyanophenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-, 2-[(3-cyanophenyl)-sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(2,6-dichlorophenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-bromo-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-, 2-[(2-chloro-4-fluorophenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-, 2-[(3,5-dichlorophenyl)-sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[[3,5-bis(trifluoromethyl)-phenyl]-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-nitro-, 2-(phenylsulfonyl)-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(5-fluoro-2-methylphenyl)-sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(3,4-difluorophenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(3-methoxyphenyl)-sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(3-chloro-4-fluorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(3-fluorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(3,4-difluorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(2-chlorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(3-chlorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(2-bromophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(3-bromophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(2-methylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(3-methylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(3-methoxyphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(3-chloro-2-methylphenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[(5-fluoro-2-methylphenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-methylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-methoxy-3-(1-methylethoxy), 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 3,5-dimethoxy-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 3,6-dimethoxy-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 4,6-dimethoxy-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-(phenylsulfonyl)-hydrazide-

2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(2-trifluoromethylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(4-fluorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(3-methylphenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 3-methoxy-5-phenyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 3-ethoxy-5-phenyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 3-methoxy-7-phenyl-, 2-(phenylsulfonyl)-hydrazide

Naptho[2,3-b]furan-2-carboxylic acid, 3-methoxy-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-(phenylsulfonyl)-sulfonyl-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-[[2-(trifluoromethyl)-phenyl]]sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(2-methylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(3-methylphenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(2-bromophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(3-bromophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(3-chlorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5,7-dichloro 2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide

Benzofurancarboxylic acid, 5-methyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-3-methoxy, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 5-methyl-, 2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-methylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-methyl-, 2-[2-(methylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-chloro-2-methylphenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-methyl-, 2-[3-(bromophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-chlorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 5-methyl-, 2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 4-methyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 3-methyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 3,5-dimethyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 5-chloro-3-methyl-, 2-(phenylsulfonyl)-hydrazide

2-Benzofurancarboxylic acid, 5-amino-, 2-(phenylsulfonyl)-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(2-fluorophenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-(2,6-difluorophenylsulfonyl)-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(2-bromophenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(4-methyl-3-nitrophenyl)-sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[2-chloro-5-(fluoromethyl)-phenyl]sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(4-bromo-2-trifluoromethoxyphenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(2-nitrophenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(4-carboxyphenyl)sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(4,5-dichloro-2-thienyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-chlorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-fluorophenyl)-sulfonyl]-hydrazide



2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(2,3-dichlorophenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(5-chloro-2-methoxyphenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(5-bromo-2-methoxyphenyl)sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(4-ethylphenyl)-sulfonyl]-hydrazide

2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-methoxyphenyl)-sulfonyl]-hydrazide

2-Dibenzofurancarboxylic acid, 2-[(2,3-dichlorophenyl)sulfonyl]-hydrazide

2-Naphthalenecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide

2-Naphthalenecarboxylic acid, 2-[[2-(trifluoromethyl)phenyl]-sulfonyl]-hydrazide

2-Naphthalenecarboxylic acid, 2-[[4-(trifluoromethyl)phenyl]-sulfonyl]-hydrazide

2-Naphthalenecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)-sulfonyl]-hydrazide

2-Naphthalenecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide

2-Naphthalenecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide

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2-Naphthalenecarboxylic acid, 2-[(2,3-dichlorophenyl)sulfonyl]-hydrazide

2-Naphthalenecarboxylic acid, 2-[(4-ethylphenyl)sulfonyl]-hydrazide

3-Quinolinecarboxylic acid, 2-[(4-pentylphenyl)sulfonyl]-hydrazide

3-Quinolinecarboxylic acid, 2-[[2-(trifluoromethyl)phenyl]-sulfonyl]-hydrazide

3-Quinolinecarboxylic acid, 2-[[2,5-bis(2,2,2-trifluoroethoxy)-phenyl]sulfonyl]-hydrazide

3-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide

3-Quinolinecarboxylic acid, 2-[[2-(trifluoromethoxy)phenyl]-sulfonyl]-hydrazide

3-Quinolinecarboxylic acid, 2-[(4-methylphenyl)sulfonyl]-hydrazide

6-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide

3-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide

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3-Quinolinecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide

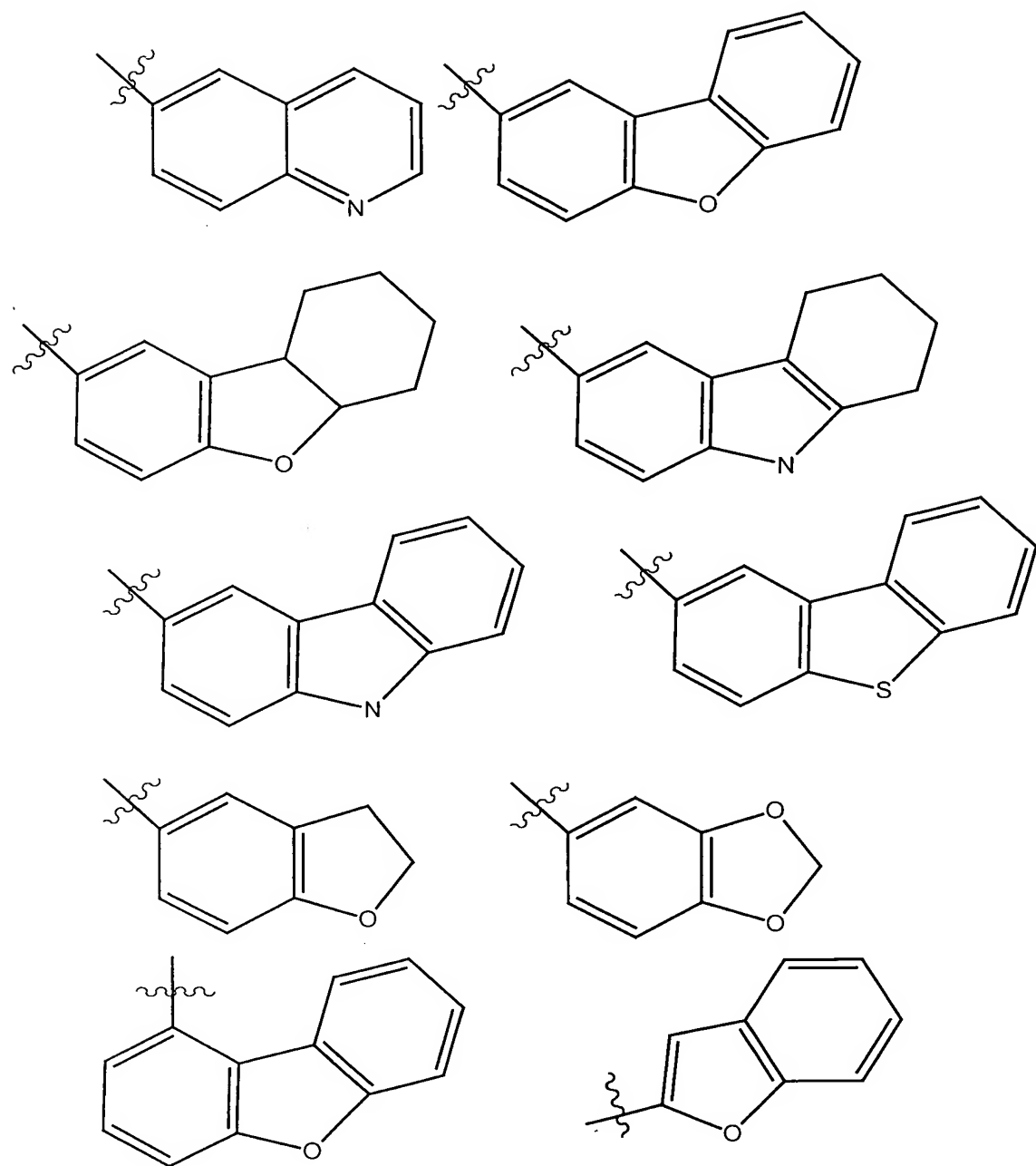
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 6-Quinolinecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide  
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 6-Quinolinecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide  
 3-Quinolinecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide  
 6-Quinolinecarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide  
 3-Quinolinecarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide  
 Benzofuran-2-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 7-Ethoxy-2-benzofurancarboxylic acid 2-(phenylsulfonyl)-hydrazide  
 7-Chlorobenzofuran-2-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 2,3-Dihydro-benzofuran-5-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 5-Chlorobenzofuran-2-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 Isoquinoline-1-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 1H-Indole-5-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 Quinoline-3-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 Quinoline-4-carboxylic acid 2-(phenylsulfonyl)-hydrazide  
 1H-Indole-5-carboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide  
 1H-Indole-5-carboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide  
 1H-Indole-5-carboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide  
 1H-Indole-5-carboxylic acid, 2-[(3-trifluoromethylphenyl)-sulfonyl]-hydrazide  
 1H-Indole-5-carboxylic acid, 2-[(2-trifluoromethylphenyl)-sulfonyl]-hydrazide  
 1H-Indole-5-carboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide  
 1H-Indole-5-carboxylic acid, 2-[(3-trifluoromethoxyphenyl)-sulfonyl]-hydrazide  
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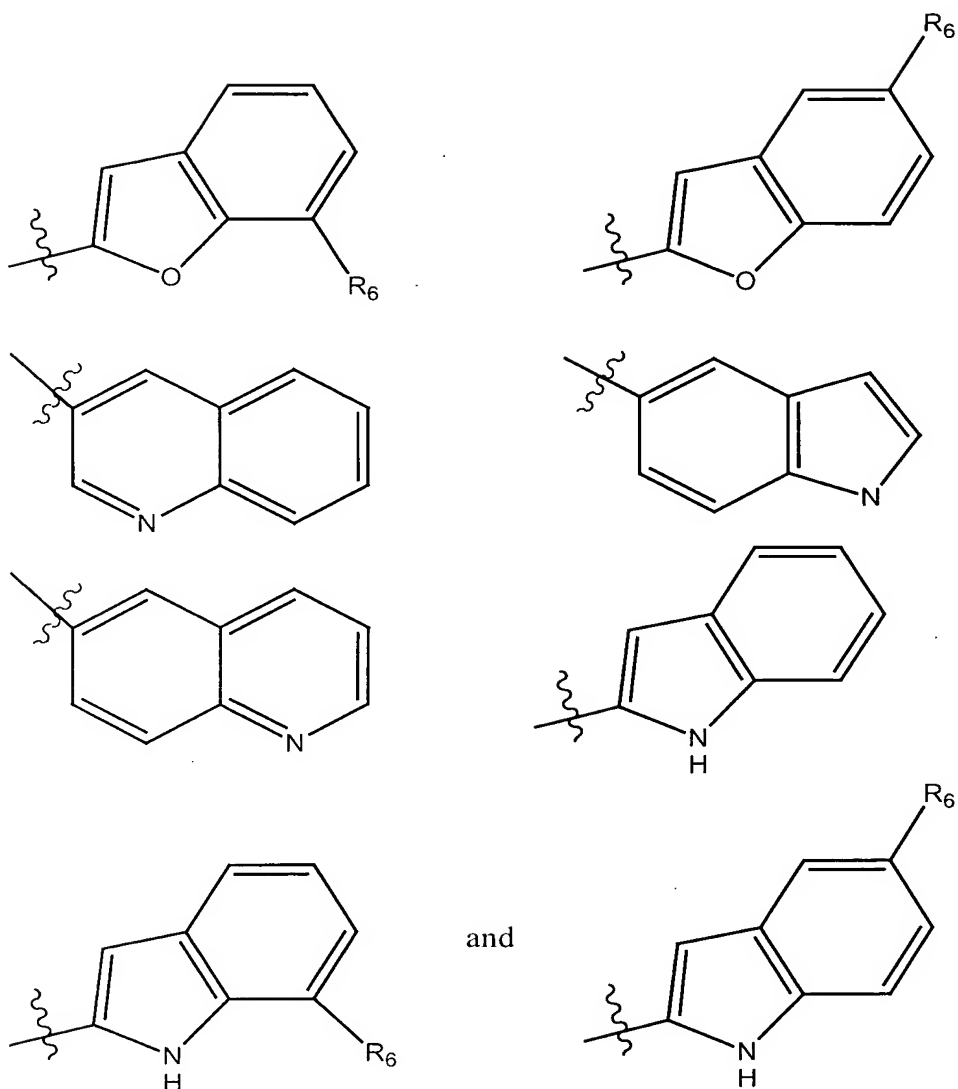
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 6-Quinolinecarboxylic acid, 2-[(3-trifluoromethoxyphenyl)-sulfonyl]-hydrazide  
 6-Quinolinecarboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide-  
 Dibenzofuran-2-carboxylic acid, 2-(4-fluoro-3-methylphenylsulfonyl)-hydrazide  
 7-Methoxy-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide  
 7-Chloro-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide  
 5-Methoxy-1H-indole-2-carboxylic acid, (phenylsulfonyl)-hydrazide  
 5-Chloro-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide  
 5-Chloro-1H-indole-2-carboxylic acid, 2-[(2-trifluoromethyl)-phenylsulfonyl]-  
 hydrazide  
 5-Methyl-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide  
 and 5-Methyl-1H-indole-2-carboxylic acid, 2-[(2-trifluoromethyl)-phenylsulfonyl]-  
 hydrazide.

7. (original) A pharmaceutical composition comprising a compound of claim 1 and a pharmaceutically acceptable carrier.

8. (Currently amended) A method of treating ~~or preventing~~ neuronal loss associated with stroke, ischemia, CNS trauma, hypoglycemia or surgery, or treating a neurodegenerative disease, or treating or preventing the adverse consequences of the overstimulation of the excitatory amino acids, or treating anxiety, psychosis, glaucoma, CMV retinitis, diabetic retinopathy, urinary incontinence, migraine headache, convulsions, aminoglycoside antibiotics-induced hearing loss, Parkinson's disease, chronic pain, neuropathic pain, or inducing anesthesia, opioid tolerance or withdrawal, or enhancing cognition, comprising administering to a patient in need of such treatment an effective amount of a compound of claim 1.

9. (original) The method of claim 8 wherein Ar is selected from the group consisting of:





wherein  $R_6$  is is alkoxy, substituted alkoxy, halogen, aryloxy, substituted aryloxy, alkylamino, substituted alkylamino, aryl alkylamino, substituted aryl alkylamino, amide or substituted amide.

10. (original) The method of claim 8 wherein Ar is a bicyclic heteroaryl.
11. (original) The method of claim 8 wherein Ar is a tricyclic heteroaryl.
12. (original) The method of claim 8 wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ , and  $R_5$  are hydrogen.
13. (original) The method of claim 8 wherein the compound is:  
Dibenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
2,3,4,9-Tetrahydro-1H-carbazole-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
Benzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;

5-Methoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Methoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Ethoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 2,3-Dihydro-benzofuran-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Benzo[1,3]dioxole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 1-Dibenzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Quinoline-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 Dibenzofuran-2-carboxylic acid, 2-(3,5-dichlorophenylsulfonyl)-hydrazide;  
 Dibenzofuran-2-carboxylic acid, 2-(3-chloro-2-methyl-phenylsulfonyl)-hydrazide;  
 Quinoline-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Quinoline-8-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(4-fluorophenyl)]-sulfonyl -hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(4-fluoro-phenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4-fluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-chloro-4-fluorophenyl)-sulfonyl]hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-cyanophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-, 2-[(3-cyanophenyl)-sulfonyl]hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2,6-dichlorophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-bromo-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-, 2-[(2-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-, 2-[(3,5-dichlorophenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[[3,5-bis(trifluoromethyl)-phenyl]-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-nitro-, 2-(phenylsulfonyl)-hydrazide;

2-Dibenzofurancarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(5-fluoro-2-methylphenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3,4-difluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-chloro-4-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-methoxyphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-fluorophenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3,4-difluorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(2-chlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-chlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(2-bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(2-methylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-methylphenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-methoxyphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-chloro-2-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(5-fluoro-2-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-methylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 6-methoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methoxy-3-(1-methylethoxy), 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,5-dimethoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,6-dimethoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 4,6-dimethoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-(phenylsulfonyl)-hydrazide ;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(2-trifluoromethylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(4-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 3-methoxy-5-phenyl-, 2-(phenylsulfonyl)-hydrazide;

2-Benzofurancarboxylic acid, 3-ethoxy-5-phenyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3-methoxy-7-phenyl-, 2-(phenylsulfonyl)-hydrazide;  
 Naptho[2,3-b]furan-2-carboxylic acid, 3-methoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-(phenylsulfonyl)-sulfonyl -hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[[2-(trifluoromethyl)-phenyl]]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(2-methylphenyl)-sulfonyl]hy- drazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro, 2-[(2-bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro, 2-[(3-bromophenyl)-sulfonyl]hy- drazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro, 2-[(3-chlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro, 2-[[2-(trifluoromethoxy)phenyl]sulfonyl]-hydrazide;  
 Benzofurancarboxylic acid, 5-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-3-methoxy, 2-(phenylsulfonyl)hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-methylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[2-(methylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-chloro-2-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[3-(bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-chlorophenyl)-sulfonyl- ]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 4-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,5-dimethyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-3-methyl, 2-(phenylsulfonyl)hydrazide;  
 2-Benzofurancarboxylic acid, 5-amino-, 2-(phenylsulfonyl)-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-fluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-(2,6-difluorophenylsulfonyl)-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-bromophenyl)sulfonyl]-hydrazide;



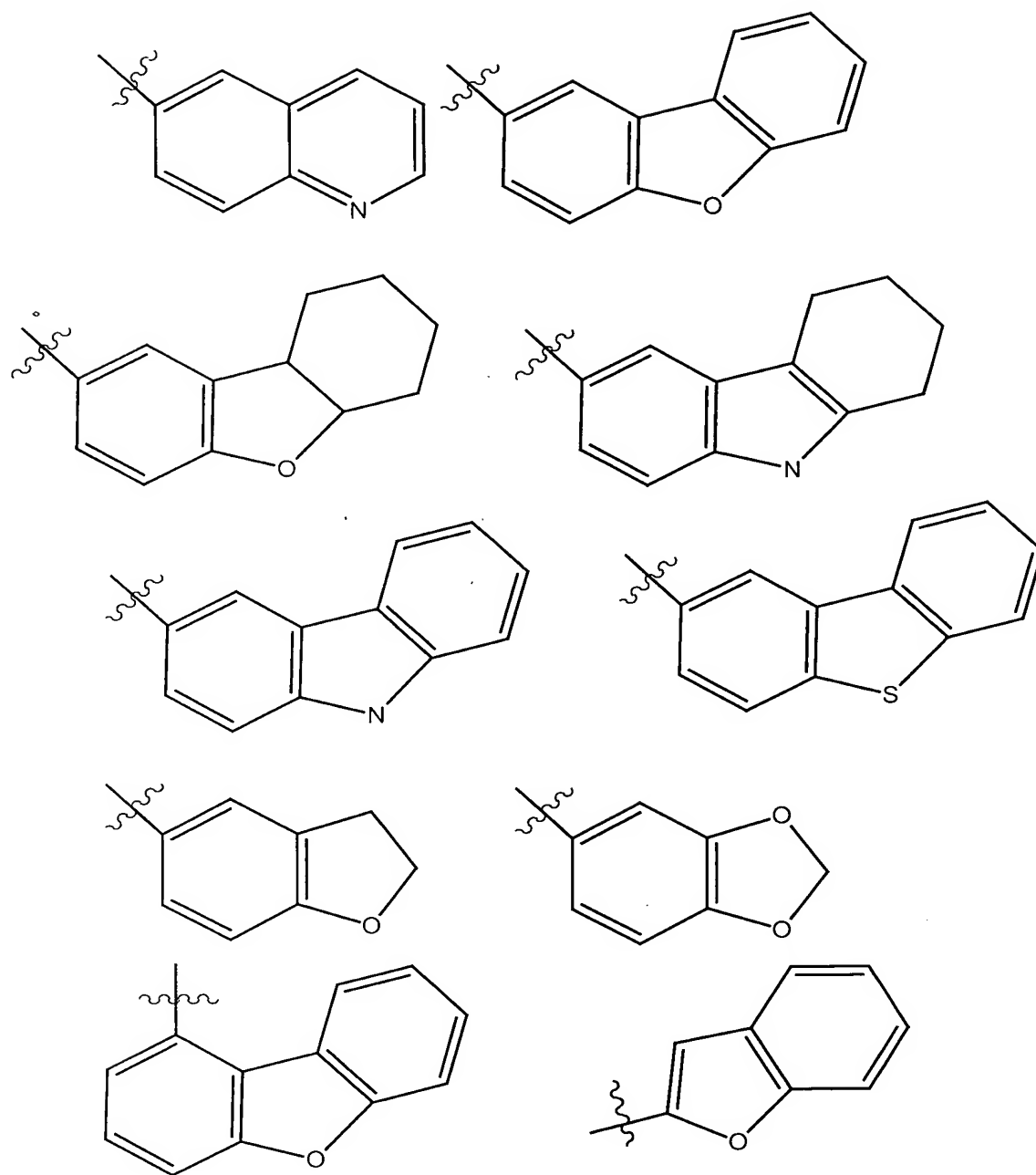
2-Dibenzofurancarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4-methyl-3-nitrophenyl)-sulfonyl]hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[2-chloro-5-(trifluoromethyl)-phenyl]sulfonyl)-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4-bromo-2-trifluoromethoxyphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-nitrophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4-carboxyphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4,5-dichloro-2-thienyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-chlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(2,3-dichlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(5-chloro-2-methoxyphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(5-bromo-2-methoxyphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(4-ethylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-methoxyphenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2,3-dichlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(4-methylphenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(2-(trifluoromethyl)phenyl)-sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(4-(trifluoromethyl)phenyl)-sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-(2-thienylsulfonyl)-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(2,3-dichlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(4-ethylphenyl)sulfonyl]-hydrazide;

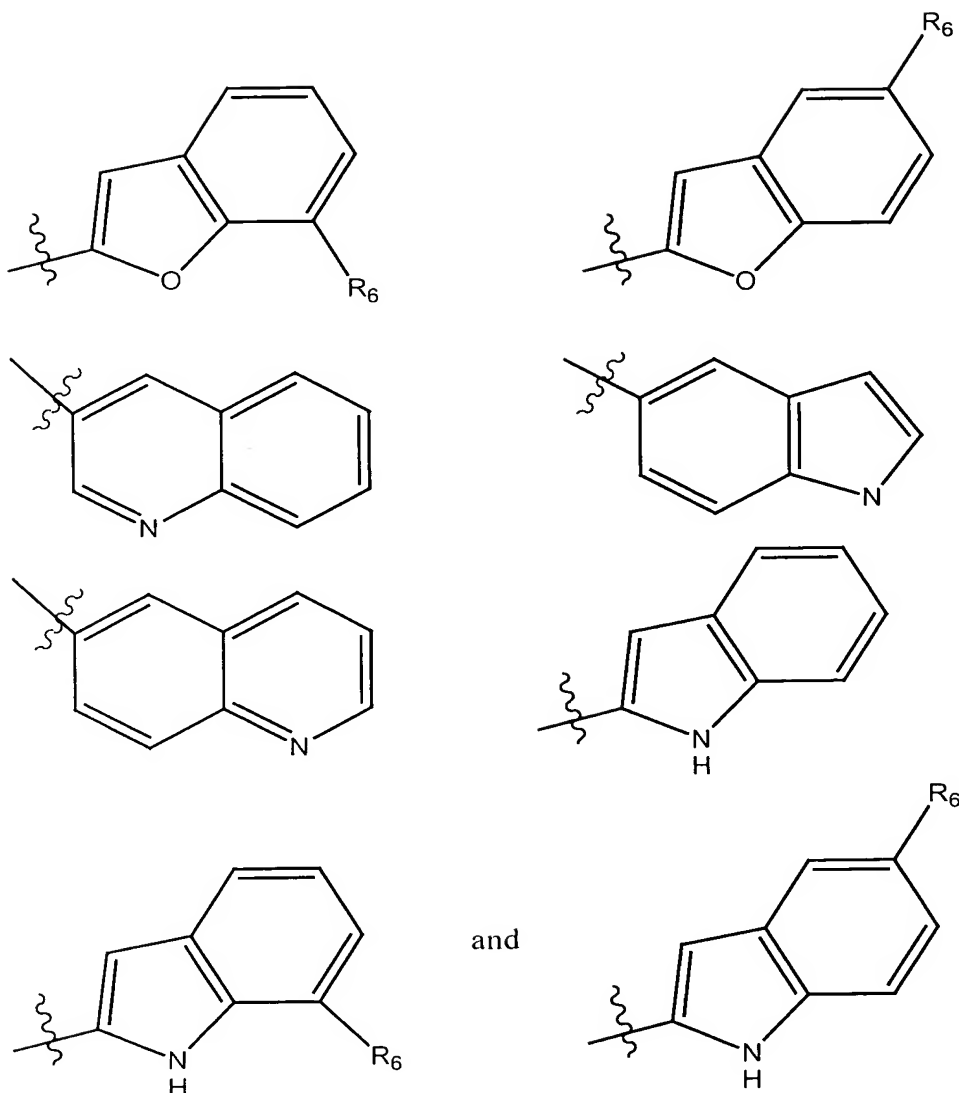
3-Quinolinecarboxylic acid, 2-[(4-pentylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[[2-(trifluoromethyl)phenyl]-sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[[2,5-bis(2,2,2-trifluoroethoxy)-phenyl]sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[[2-(trifluoromethoxy)phenyl]-sulfonyl]hydr- azide;  
 3-Quinolinecarboxylic acid, 2-[(4-methylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-trifluoromethylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(2-trifluoromethylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3,5-dichlorophenyl)sulfonyl- ]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3,5-dichlorophenyl)sulfonyl] -hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide;  
 Benzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Ethoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 2,3-Dihydro-benzofuran-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Isoquinoline-1-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;

Quinoline-3-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Quinoline-4-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-trifluoromethylphenyl)-sulfonyl]hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(2-trifluoromethylphenyl)-sulfonyl]hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-trifluoromethylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-trifluoromethoxyphenyl)-sulfonyl]hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide;  
 Dibenzofuran-2-carboxylic acid, 2-(4-fluoro-3-methylphenylsulfonyl)hydrazide;  
 7-Methoxy-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Chloro-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Methoxy-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)hydrazide;  
 5-Chloro-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Chloro-1H-indole-2-carboxylic acid, 2-[(2-trifluoromethyl)-phenylsulfonyl]-hydrazide;  
 5-Methyl-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Methyl-1H-indole-2-carboxylic acid, 2-[(2-trifluoromethyl)-phenylsulfonyl]-hydrazide; and  
 2-Naphthalenecarboxylic acid, 2-(phenylsulfonyl)-hydrazide.

14. (Currently amended) A method for inhibiting branched chain amino acid-dependent amino transferases in a patient, the method comprising the step of administering to the patient ~~a therapeutically effective amount of a compound of claim 1~~ effective to effect such inhibition.

15.(original) The method of claim 14, wherein Ar is selected from the group consisting of:





wherein  $R_6$  is is alkoxy, substituted alkoxy, halogen, aryloxy, substituted aryloxy, alkylamino, substituted alkylamino, arylalkylamino, substituted arylalkylamino, amide or substituted amide.

16. (original) The method of claim 14, wherein Ar is a bicyclic heteroaryl.

17. (original) The method of claim 14, wherein Ar is a tricyclic heteroaryl.

18. (original) The method of claim 14, wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ , and  $R_5$  are hydrogen.

19. (original) The method of claim 14, wherein the compound is:

Dibenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;

2,3,4,9-Tetrahydro-1H-carbazole-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;

Benzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;

5-Methoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Methoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Ethoxy-2-benzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Chlorobenzofuran-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 2,3-Dihydro-benzofuran-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Benzo[1,3]dioxole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 1-Dibenzofurancarboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Quinoline-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 Dibenzofuran-2-carboxylic acid, 2-(3,5-dichlorophenylsulfonyl)-hydrazide;  
 Dibenzofuran-2-carboxylic acid, 2-(3-chloro-2-methyl-phenylsulfonyl)-hydrazide;  
 Quinoline-6-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Quinoline-8-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(4-fluorophenyl)]-sulfonyl -hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(4-fluoro-phenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4-fluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-chloro-4-fluorophenyl)-sulfonyl]hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-cyanophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-, 2-[(3-cyanophenyl)-sulfonyl]hyd- razide;  
 2-Dibenzofurancarboxylic acid, 2-[(2,6-dichlorophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-bromo-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-, 2-[(2-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-, 2-[(3,5-dichlorophenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[[3,5-bis(trifluoromethyl)-phenyl]-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro, 2-[(3-chloro-4-fluorophenyl)sulfon- yl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-nitro-, 2-(phenylsulfonyl)-hydrazide;

2-Dibenzofurancarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(5-fluoro-2-methylphenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3,4-difluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-chloro-4-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-methoxyphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-fluorophenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3,4-difluorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(2-chlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-chlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(2-bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(2-methylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-methylphenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-methoxyphenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(3-chloro-2-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[(5-fluoro-2-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-methylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 6-methoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methoxy-3-(1-methylethoxy), 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,5-dimethoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,6-dimethoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 4,6-dimethoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(2-trifluoromethylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(4-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 3,7-dimethoxy-, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 3-methoxy-5-phenyl-, 2-(phenylsulfonyl)hydrazide;

2-Benzofurancarboxylic acid, 3-ethoxy-5-phenyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3-methoxy-7-phenyl-, 2-(phenylsulfonyl)-hydrazide;  
 Naphtho[2,3-b]furan-2-carboxylic acid, 3-methoxy-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-(phenylsulfonyl)-sulfonyl -hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[[2-(trifluoromethyl)-phenyl]]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(2-methylphenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(2-bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(3-bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[(3-chlorophenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5,7-dichloro 2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide;  
 Benzofurancarboxylic acid, 5-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-3-methoxy, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[[2-(trifluoromethyl)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-methylphenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[2-(methylphenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-chloro-2-methylphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[3-(bromophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[(3-chlorophenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 5-methyl-, 2-[[2-(trifluoromethoxy)-phenyl]sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 4-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3-methyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 3,5-dimethyl-, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-chloro-3-methyl, 2-(phenylsulfonyl)-hydrazide;  
 2-Benzofurancarboxylic acid, 5-amino-, 2-(phenylsulfonyl)-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-fluorophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-(2,6-difluorophenylsulfonyl)-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-bromophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide;

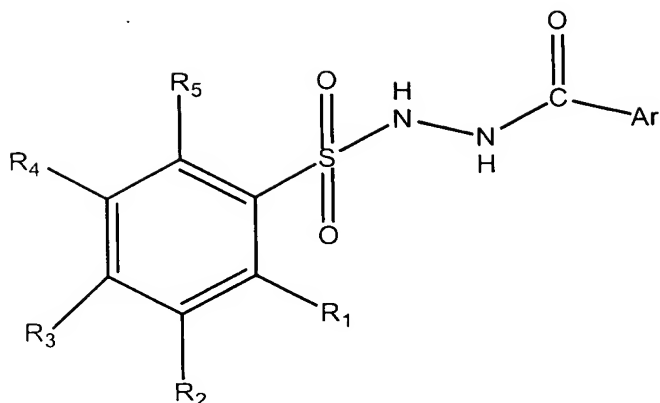


2-Dibenzofurancarboxylic acid, 2-[(4-methyl-3-nitrophenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[2-chloro-5-(trifluoromethyl)-phenyl]sulfonyl-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4-bromo-2-trifluoromethoxyphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2-nitrophenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4-carboxyphenyl)sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(4,5-dichloro-2-thienyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-chlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(2,3-dichlorophenyl)-sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(5-chloro-2-methoxyphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(5-bromo-2-methoxyphenyl)sulfonyl]-hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(4-ethylphenyl)-sulfonyl]hydrazide;  
 2-Benzofurancarboxylic acid, 7-methoxy-, 2-[(3-methoxyphenyl)-sulfonyl]-hydrazide;  
 2-Dibenzofurancarboxylic acid, 2-[(2,3-dichlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(4-methylphenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[[2-(trifluoromethyl)phenyl]-sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[[4-(trifluoromethyl)phenyl]-sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)-sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(2,3-dichlorophenyl)sulfonyl]-hydrazide;  
 2-Naphthalenecarboxylic acid, 2-[(4-ethylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(4-pentylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[[2-(trifluoromethyl)phenyl]-sulfonyl]-hydrazide;

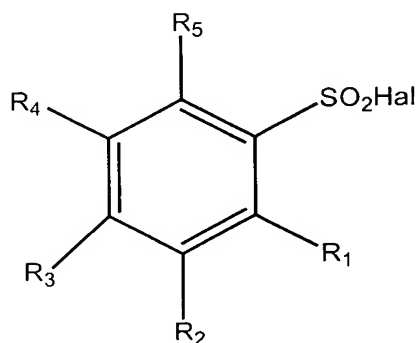
3-Quinolinecarboxylic acid, 2-[[2,5-bis(2,2,2-trifluoroethoxy)-phenyl]sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[[2-(trifluoromethoxy)phenyl]-sulfonyl]hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(4-methylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-trifluoromethylphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(2-trifluoromethylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3,5-dichlorophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3,5-dichlorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-chloro-4-fluorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-methoxyphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide;  
 3-Quinolinecarboxylic acid, 2-[(3-bromophenyl)sulfonyl]-hydrazide;  
 Benzofuran-2-carboxylic acid 2-(phenylsulfonyl)-hydrazide;  
 7-Ethoxy-2-benzofurancarboxylic acid 2-(phenylsulfonyl)-hydrazide;  
 7-Chlorobenzofuran-2-carboxylic acid 2-(phenylsulfonyl)-hydrazide;  
 2,3-Dihydro-benzofuran-5-carboxylic acid 2-(phenylsulfonyl)-hydrazide;  
 5-Chlorobenzofuran-2-carboxylic acid 2-(phenylsulfonyl)-hydrazide;  
 Isoquinoline-1-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Quinoline-3-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 Quinoline-4-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;

1H-Indole-5-carboxylic acid, 2-[(3-chlorophenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-fluorophenyl)sulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-trifluoromethylphenyl)-sulfonyl]hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(2-trifluoromethylphenyl)-sulfonyl]hy- drazide;  
 1H-Indole-5-carboxylic acid, 2-[(2-trifluoromethoxyphenyl)-sulfon- yl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-trifluoromethoxyphenyl)-s- ulfonyl]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-bromophenyl)sulfonyl- ]-hydrazide;  
 1H-Indole-5-carboxylic acid, 2-[(3-methylphenyl)sulfonyl]-hyd- razide;  
 1H-Indole-5-carboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-chlorophenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-trifluoromethylphenyl)sulfonyl]-hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(3-trifluoromethoxyphenyl)-sulfonyl]hydrazide;  
 6-Quinolinecarboxylic acid, 2-[(2-methylphenyl)sulfonyl]-hydrazide;  
 Dibenzofuran-2-carboxylic acid, 2-(4-fluoro-3-methylphenylsulfonyl)hydrazide;  
 7-Methoxy-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 7-Chloro-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Methoxy-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Chloro-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Chloro-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Chloro-1H-indole-2-carboxylic acid, 2-[(2-trifluoromethyl)-phenylsulfon- yl]-hydrazide;  
 5-Methyl-1H-indole-2-carboxylic acid, 2-(phenylsulfonyl)-hydrazide;  
 5-Methyl-1H-indole-2-carboxylic acid, 2-[(2-trifluoromethyl)-phenylsulfonyl]-hydrazide; and  
 2-Naphthalenecarboxylic acid, 2-(phenylsulfonyl)-hydrazide.

20. (original) A method for preparing a compound of Formula I



wherein:  $R_3$  is H, or F, Br, alkyl, carboxy, alkoxy, substituted alkoxy,  $R_1$ ,  $R_2$ ,  $R_4$ , and  $R_5$  are independently, H, halogen, alkyl, substituted alkyl, alkoxy, substituted alkoxy, cyano, nitro, amino, alkylamine, and thioalkyl, Ar is bicyclic heteroaryl, tricyclic heteroaryl, substituted bicyclic heteroaryl, except (6-methoxybenzofuran)-2-nyl, 3-quinolinyl which comprises reacting a -hydrazide of the formula  $ArC(O)NH_2NH_2$  with a sulfonyl halide of the formula:



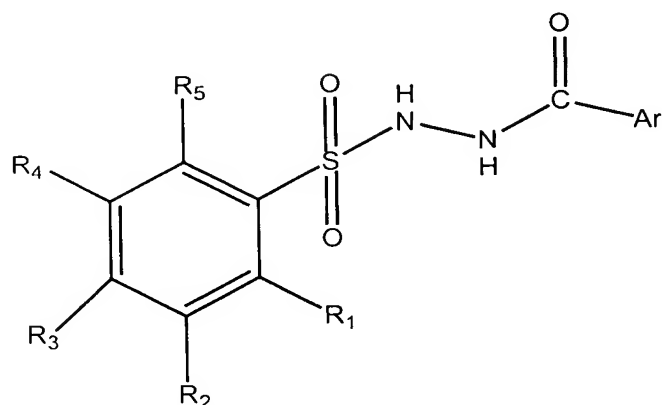
where  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$  and Ar are as defined above and Hal is halogen.

21. (Canceled)

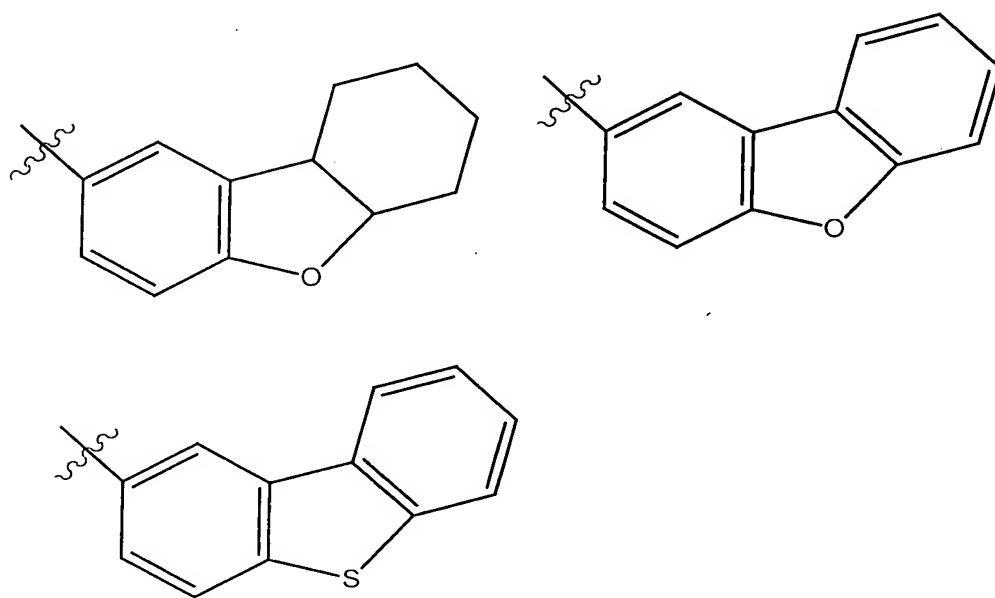
22. (Currently amended) A medicine for treatment ~~or for preventing~~ neuronal loss associated with stroke, ischemia, CNS trauma, hypoglycemia or surgery, or treating a neuro degenerative disease, or treating or preventing the adverse consequences of the overstimulation of the excitatory amino acids, or treating anxiety, psychosis, glaucoma, CMV retinitis, diabetic retinopathy, urinary incontinence, migraine headache, convulsions, aminoglycoside antibiotics-induced hearing loss, Parkinson's disease, chronic pain, neuropathic pain, or inducing anesthesia, opioid tolerance or withdrawal, or enhancing cognition comprising a

therapeutically effective amount of a compound as claimed in claim 1.

23. (New) 1.(currently amended) A compound of Formula I

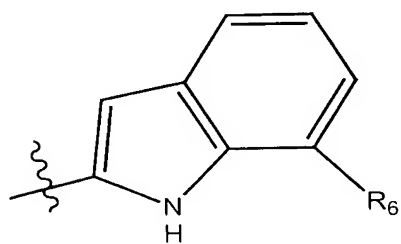
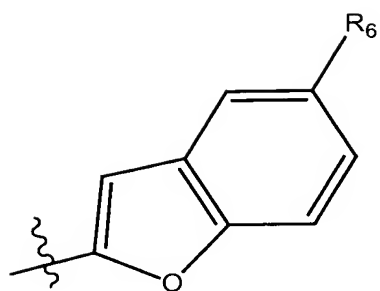
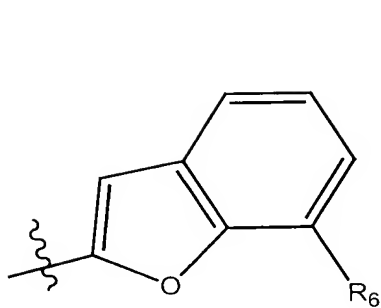


wherein: R<sub>3</sub> is H, or F, Br, alkyl, carboxy, alkoxy, substituted alkoxy, R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, and R<sub>5</sub> are independently, H, halogen, alkyl, substituted alkyl, alkoxy, substituted alkoxy, cyano, nitro, amino, alkylamine, and thioalkyl, Ar is naphthalenyl or bicyclic heteroaryl, tricyclic heteroaryl selected from the group consisting of

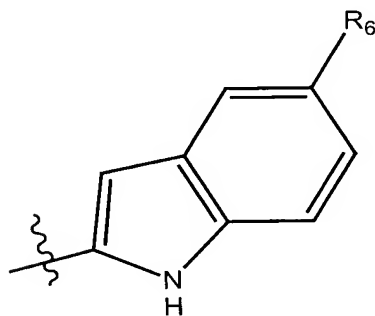


and

, substituted bicyclic heteroaryl selected from the group consisting of



and



wherein  $R_6$  is alkoxy, except 6-methoxy or ethoxy benzofuran-2-ynyl), substituted alkoxy, halogen, aryloxy, substituted aryloxy, alkylamino, substituted alkylamino, aryl alkylamino, substituted aryl alkylamino, amide or substituted amide, 3-quinolinyl; or a pharmaceutically acceptable salt, thereof.